

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533370

Luminaire Tested: **GALN-SA8D-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55138 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

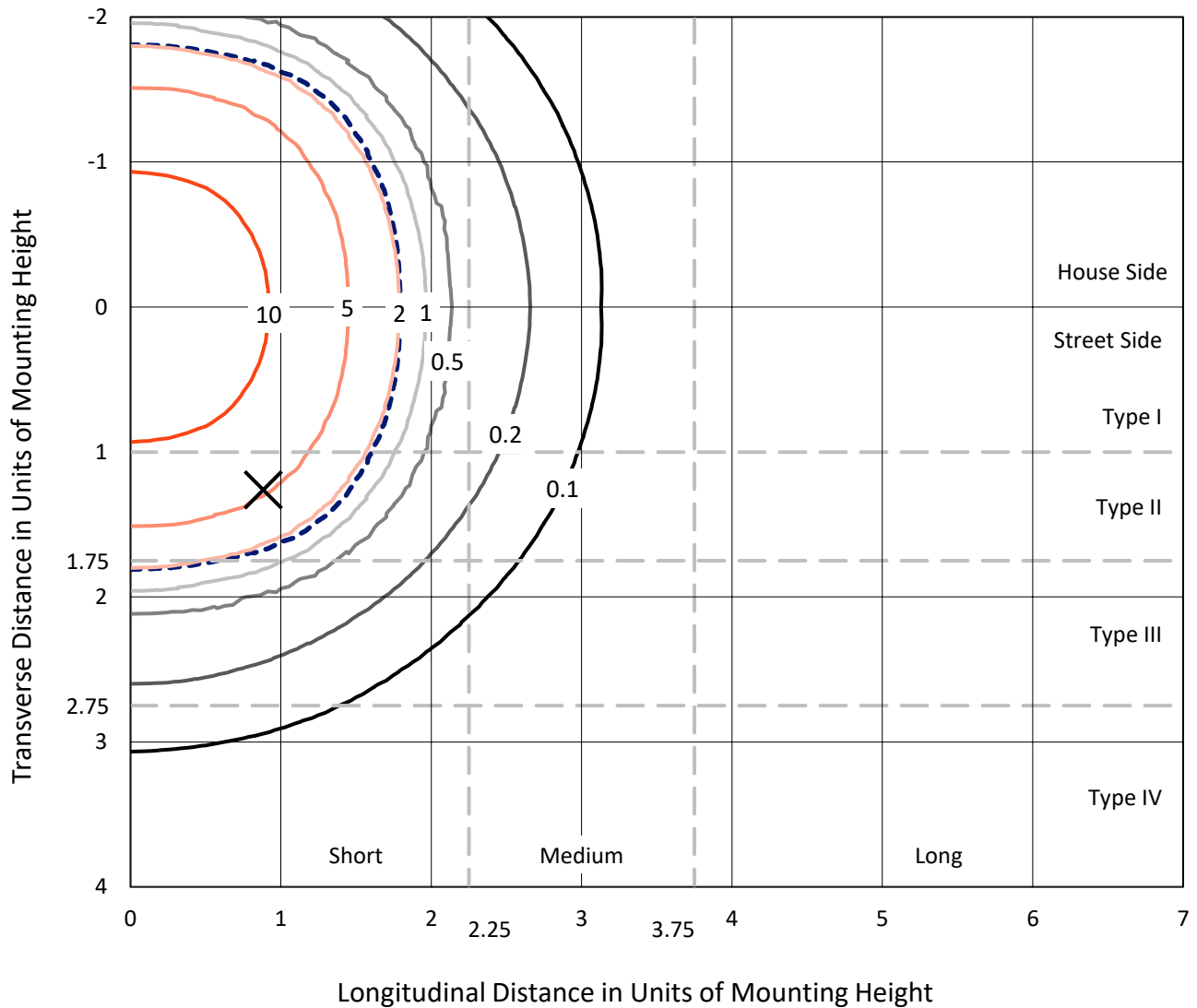
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

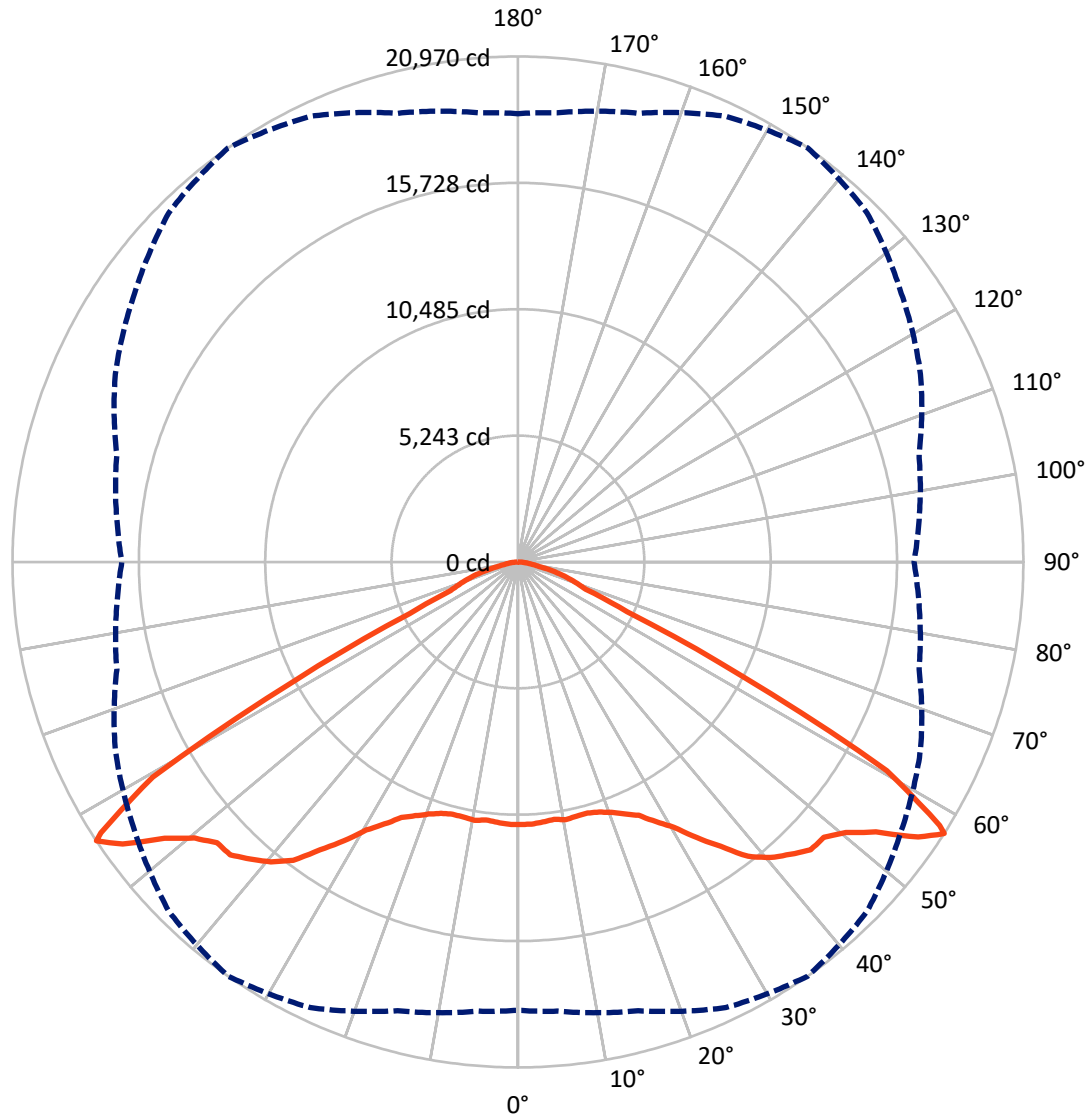
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27569.0	0.0	27569.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27569.0	0.0	27569.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55138.0	0.0	55138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.3	1.9
10°-20°	3057.5	5.5
20°-30°	5339.9	9.7
30°-40°	8749.6	15.9
40°-50°	12829.1	23.3
50°-60°	16159.2	29.3
60°-70°	6077.3	11.0
70°-80°	1615.9	2.9
80°-90°	277.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	55138.0	100.0
0°-180°	55138.0	100.0

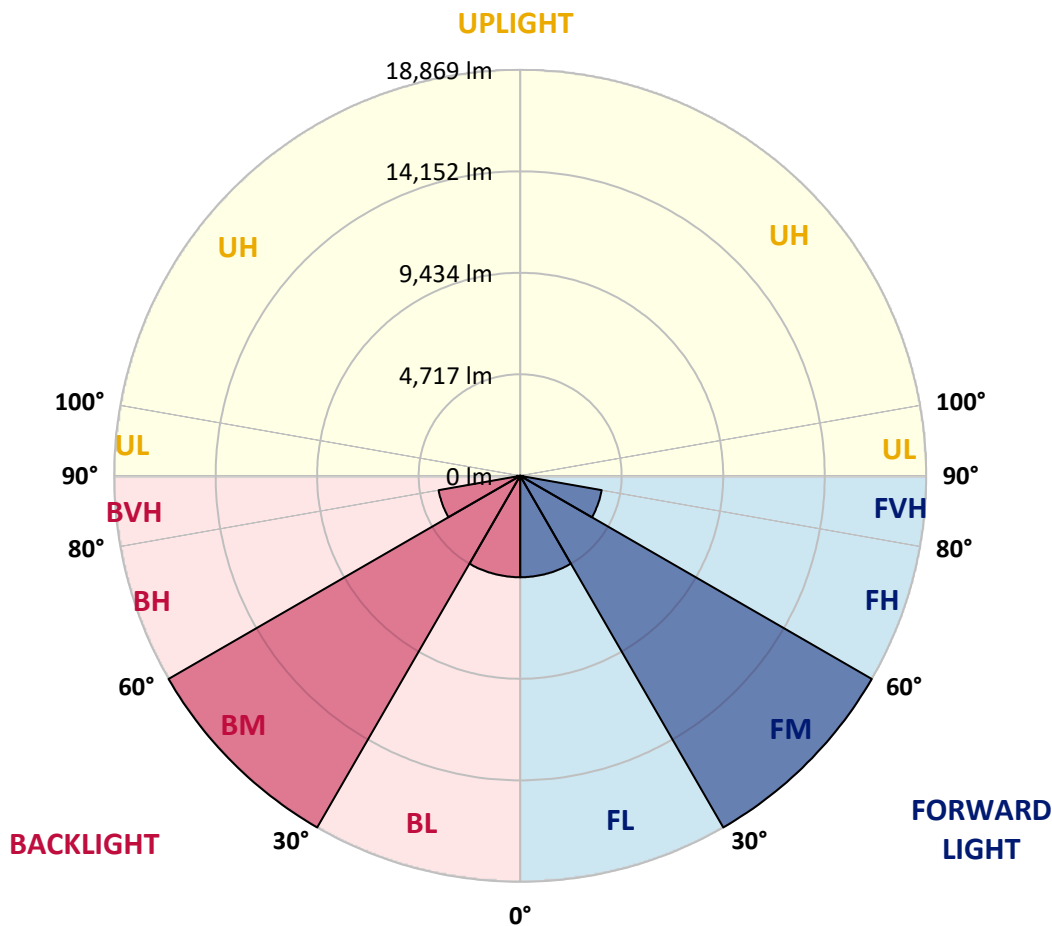


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4714.9	8.6			
FM (30°-60°)	18868.9	34.2			
FH (60°-80°)	3846.6	7.0			G2/5000
FVH (80°-90°)	138.5	0.3			G2/225
BL (0°-30°)	4714.9	8.6	B4/5000		
BM (30°-60°)	18868.9	34.2	B5		
BH (60°-80°)	3846.6	7.0	B4/5000		G2/5000
BVH (80°-90°)	138.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10889.3	10889.3	10889.3	10889.3	10889.3	10889.3	10889.3	10889.3	10889.3	10889.3	10889.3
2.5°	10835.0	10943.7	10896.1	10869.0	10889.3	10855.4	10801.0	10862.2	10848.6	10794.2	10773.9
5°	10807.8	10889.3	10835.0	10889.3	10835.0	10930.1	10902.9	10801.0	10923.3	10807.8	10848.6
7.5°	10787.5	10814.6	10828.2	10801.0	10780.7	10896.1	10835.0	10787.5	10719.5	10699.1	10733.1
10°	10739.9	10807.8	10705.9	10841.8	10869.0	10787.5	10787.5	10699.1	10644.8	10610.8	10726.3
12.5°	10862.2	10746.7	10733.1	10801.0	10821.4	10855.4	10760.3	10712.7	10610.8	10624.4	10604.0
15°	10719.5	10767.1	10773.9	10787.5	10807.8	10889.3	10801.0	10699.1	10658.4	10515.7	10529.3
17.5°	10773.9	10726.3	10773.9	10930.1	10902.9	10964.1	10869.0	10712.7	10617.6	10536.1	10644.8
20°	10869.0	10848.6	10869.0	11059.2	11093.1	11147.5	11066.0	10923.3	10739.9	10644.8	10699.1
22.5°	10970.9	10957.3	10970.9	11154.3	11351.3	11419.2	11337.7	11004.8	10909.7	10733.1	10672.0
25°	11154.3	11167.9	11310.5	11514.3	11643.4	11772.5	11623.0	11385.2	11079.6	10970.9	10841.8
27.5°	11561.9	11595.8	11677.3	11976.2	12200.4	12315.9	12105.3	11779.2	11589.0	11364.9	11330.9
30°	12064.6	12064.6	12207.2	12465.3	12771.0	12947.7	12689.5	12302.3	12071.3	11949.1	11874.3
32.5°	12730.3	12655.6	12709.9	13165.0	13640.6	13790.0	13443.6	12968.0	12601.2	12438.2	12383.8
35°	13300.9	13348.5	13470.7	13959.8	14489.7	14836.1	14292.7	13674.5	13300.9	13151.5	13124.3
37.5°	14041.3	14122.9	14184.0	14856.5	15495.1	15624.1	15101.1	14605.2	14150.0	14027.8	13959.8
40°	15087.5	15033.1	15053.5	15549.4	16126.8	16208.4	15692.1	15338.8	14965.2	14890.5	14890.5
42.5°	15950.2	15889.1	15957.0	16140.4	16582.0	16520.8	16235.5	15977.4	15821.1	15739.6	15821.1
45°	16473.3	16459.7	16582.0	16717.8	17030.3	16826.5	16602.4	16643.1	16493.7	16357.8	16351.0
47.5°	17043.9	16955.6	17105.0	17308.8	17071.1	16976.0	16962.4	17050.7	17003.1	16765.4	16690.7
50°	17322.4	17288.5	17526.2	17764.0	17634.9	17417.5	17465.1	17607.7	16996.4	16677.1	16493.7
52.5°	18069.7	18076.5	18531.6	18660.7	18606.3	18287.0	18388.9	18001.7	17281.7	16833.3	16853.7
55°	19244.9	19197.3	19706.8	20087.2	20148.4	19740.8	19251.7	18708.2	17804.7	17349.6	17213.7
57°	18599.5	18708.2	19272.0	20399.7	20970.3	20488.0	19421.5	18429.7	17227.3	16677.1	16432.5
57.5°	17736.8	17913.4	18891.6	20026.1	20623.9	20583.1	19210.9	17913.4	16840.1	15984.2	16004.6
60°	12995.2	13029.2	13912.3	15712.5	17580.6	17621.3	15950.2	14231.6	13036.0	12105.3	12234.4
62.5°	6854.2	7010.5	7363.7	8810.7	10427.4	10821.4	9809.2	8926.1	7893.6	7187.1	7255.0
65°	3627.5	3607.1	3777.0	4184.6	4979.3	5183.1	5047.3	4347.6	3987.6	3872.1	3878.9
67.5°	2948.2	2982.2	2961.8	2982.2	3036.5	3124.8	3104.4	3131.6	3152.0	3186.0	3179.2
70°	2499.9	2499.9	2513.4	2520.2	2520.2	2561.0	2608.6	2696.9	2703.7	2737.6	2751.2
72.5°	1970.0	1956.4	1976.8	2024.3	2031.1	2065.1	2133.0	2187.4	2207.8	2207.8	2167.0
75°	1338.2	1351.8	1379.0	1419.8	1460.5	1521.7	1576.0	1610.0	1623.6	1603.2	1582.8
77.5°	754.0	767.6	788.0	849.1	896.7	951.0	1012.2	1046.1	1080.1	1086.9	1046.1
80°	448.3	448.3	482.3	529.9	584.2	638.6	692.9	733.7	747.2	747.2	726.9
82.5°	271.7	278.5	305.7	353.2	400.8	434.8	482.3	516.3	543.4	536.7	523.1
85°	142.7	142.7	169.8	210.6	244.6	278.5	278.5	258.1	244.6	210.6	197.0
87.5°	47.6	40.8	54.3	54.3	47.6	54.3	54.3	61.1	61.1	61.1	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)